

## iZotope Trash Box Modeler for Wwise

## Introduction

The Trash Box Modeler effect for Wwise provides real models of cabinets, speakers, radios, and many other devices. In addition to recreating the natural sound of over 80 devices, each model is optimized to minimize CPU and memory cost while retaining the nuances of its source. This is perfect for creating a more authentic sound, or for adding creative effects to audio.

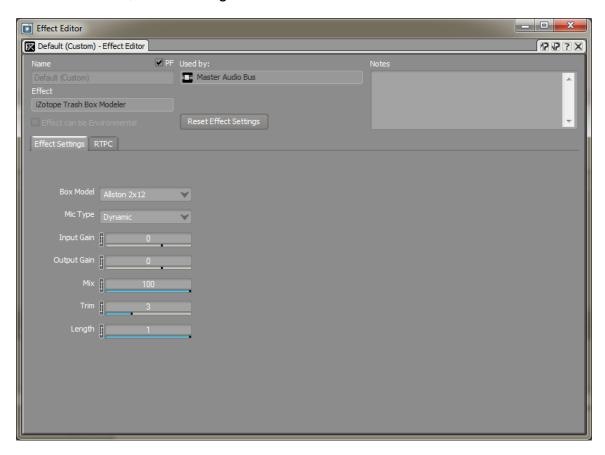


Figure 1 - Trash Box Modeler for Wwise



## **Box Models**

Each box model was recorded with three different microphones: Dynamic, Condenser and Ribbon. Using the *Box Model* and *Mic Type* controls, it's possible to select the specific Mic and Model combination to get the perfect sound.



Figure 2 - Box Model and Mic Type

The Dynamic microphone should be suitable for most use cases, however, the Condenser mic can be used for a broader high frequency response while the Ribbon mic offers a warmer response.

## **Quality Settings**

The Trash Box Modeler effect also provides *Trim* and *Length* controls, which affect the length of the impulse response and the accuracy of the model. *Trim* sets the relative decibel threshold of the impulse response with a lower *Trim* value resulting in a shorter impulse response. Setting the *Trim* to its maximum value will result in the entire length of the impulse response being used.

The *Length* control is similar to the *Trim* control where setting the *Length* value lower will reduce the length of the impulse response. However, the *Length* is independent of decibel level. (Note: Using a lower *Trim* or *Length* is one way to help lower CPU usage).



Figure 3 - Trim and Length



Interface Element	Description		
Box Model	Selects the type of Box Model used. The Box Model choices		
	are:		
	Allston 2x10	Rockport 2x10	Device – Plexi
	Boxboro Combo	Rockport Combo	Tube
	Boxboro Jazz	Roslindale 1x12	Device – Ripped
	Boxboro Vintage	Roslindale Bass	Cone
	Brighton 4x10	Rutland 1x12	Device – Rubber
	Brockton Modified	Sterling Boutique	Cone
	Brockton Stack	Sterling Combo	Device – Rusty Bin
	Cambridge 1x12	SuperMart Special	Device – Sheet
	Cambridge	Waltham 2x12	Metal
	Reissue	Waltham 4x10	Device – Snare
	Canton Boutique	Worcester Reissue	Device – Spring
	Chelsea 2x10	Worcester Stack	Loaded Cone
	Chelsea Classic	Worcester	Device – Tin Can
	Grafton Bass Cab	Standard	Device – Upright
	Grafton Bass	Allston 2x12	Piano
	Deluxe	Oxford Classic	FX – Aluminum
	Gradton Standard	Worcester Bright	Dust
	Hanover Bass	Worcester Modified	FX – Area 51
	Hanover Classic	Device – Cheap	FX – Chipped
	SE	Radio	Glass
	Harvard Combo	Device – Kick and	FX - Cleaner
	Leicester Combo	Bell Davisa Light Ball	FX – Copper Buzz
	Leicester Stack	Device – Light Bell	FX – Electric Gate
	Lincoln Standard	Device – Loose Snare	FX – Electric Scratch
	Lincoln Vintage  Mansfield Deluxe	Device – Metal	FX – Electric
	Mansfield Vintage	Barrel	Shock
	Northbridge 4x10	Device –Metal	FX – Kicker
	Northbridge 4x10	Bowl	FX – Metal Swell
	Oakdale Bass	Device – Piano	FX – Reverse
	Oakdale Modified	Cab and Sub	Noise
	Oakdale Vintage	Device – Piano	FX – Sweep
	Oxford 2x10	Cab	FX – Sweeper
	Princeton 2x12	Device – Plastic	FX – Tin Gate
		Вох	2 3.13



Mic Type	Selects the type of Microphone Model used to capture the output of the Box Model. The Microphone choices are:	
	Dynamic Condenser Ribbon	
Input Gain	Adjusts the Input Gain, which can be used to normalize input levels.	
	Default value: 0 Range: -20 to 10 Units: dB	
Output Gain	Controls the gain after audio has been processed through the Box Model.	
	Default value: 0 Range: -20 to 10 Units: dB	
Mix	Controls the Mix between the box modeled signal (100%) and the original unprocessed signal (0%)	
	Default value: 100 Range: 0 to 100 Units: %	
Trim	Shortens the length of the impulse, with a lower Trim value corresponding to more impulse trimming, and a higher Trim value being closer to the full length of the impulse. Based on impulse level.	
	Default value: 3 Range: 0 to 10 Units: None	
Length	Shortens the length of the impulse, with a lower Length value corresponding to a shorter impulse, and a higher Length value corresponding to a longer impulse. Similar to Trim, but independent of impulse level.	
	Default value: 1 Range: 0.01 to 1 Units: None	

4